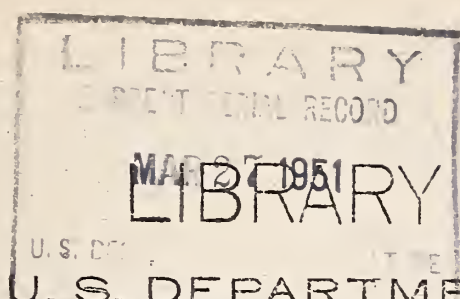
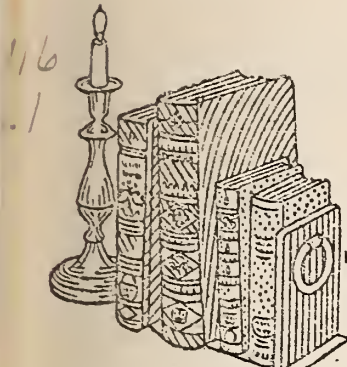


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NEWSLETTER

U. S. DEPARTMENT OF AGRICULTURE

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NEW BOOKS

ADAPTATION AND ORIGIN IN THE PLANT WORLD. THE ROLE OF ENVIRONMENT IN EVOLUTION, By F. E. Clements, E. V. Martin and F. L. Long. Waltham, Mass., The Chronica Botanica Co., 1950. 332 p., illus. 463.8 M36

"This is a monograph on the role of environment in the evolution of plants. It deals primarily with studies carried on for 40 years in a coastal laboratory and an alpine laboratory and three transplant gardens near Colorado Springs. The several chapters have to do with the installation of the gardens near Santa Barbara, and the function, form, and behavior of the plants, and the installation of the Colorado Springs gardens, and functions; ecogenesis, morphogeny, and phylogeny of these plants. Some 200 genera and 400 species of plants were studied. A glossary of terms is appended."

The extensive data presented in this publication will be of interest to ecologists generally and to all who are concerned with the nature of plant species and the environmental factors that are operative in their origin and evolution.

AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE. PROCEEDINGS; Vol. 55. Geneva, N. Y., 1950. 556 p. 81 Sc12

Ninety-four papers on a variety of horticultural subjects. Includes current information on irrigation, soil moisture, trace elements, fertilization, growth-regulating chemicals and related topics.

BOTTOM-UP MANAGEMENT; PEOPLE WORKING TOGETHER, By W. B. Given. New York, Harper, 1949. 171 p. 249 G44

The goal of the management philosophy presented in this book is the release and stimulation of individual initiative. The author, who is President of the American Brake Shoe Company, presents evidence of the workability of such a philosophy on a practical basis. He shows the flexibility of the plan which can be adapted to the needs of other forms of business and to government. He analyses procedures, mechanisms and applications, using human incident and experience by way of illustrations.

"Until recent years," the author points out, "emphasis was placed on the techniques of management. Lately businessmen have come to realize that the success

and progress of an enterprise is the sumtotal of the success and progress of its people. The management which fails to stimulate their wholehearted interest and loyalty, and fully utilize their ideas and initiative--as well as their talent and energy and skill--is short-changing itself, its stockholders and the public it serves."

DESERT WILD FLOWERS, By E. C. Jaeger. Rev. ed. Stanford, Calif., Stanford Univ. Press, 1950. 322 p. 455.82 J17D

With sketch pad and pencil always at hand Dr. Jaeger has been trekking over the deserts of the Southwest for the past twenty-five years. He has learned to know the deserts well, and recorded their plant life in his sketches with characteristic accuracy of detail. Seven hundred and sixty-four desert plants are described and illustrated in photographs or line drawings. The book is a complete guide to the flowers, trees, and shrubs of the three desert parks, Death Valley National Monument, Joshua Tree National Monument, and Borego State Park. A key to aid in identification has been included.

DOWN TO EARTH: MAPPING FOR EVERYBODY, By David Greenhood. New York, Holiday House, 1944. 262 p., illus.

According to the author, "This book has been written to be read rather than studied. It is a book for the amateur, designed to give him an understanding and appreciation of maps, whether his interests be as a user, maker or collector."

In simple, logical steps the theories and techniques of maps are developed. Part I "Getting the Most Out of Maps" tells how to interpret and apply them. Part II gives directions on how to make maps from other maps or in the field; what equipment is required, how to gather information, methods of measuring, how to run a traverse, and the best ways to sketch, letter and draw maps. Part III is devoted to the collection and care of maps. It gives instructions on how to buy and keep them, and includes a list of books, handy figures, formulas and tables.

FORAGE AND PASTURE CROPS, By W. A. Wheeler. New York, Van Nostrand, 1950. 752 p. 60 W562

A practical handbook to the grasses and legumes grown for forage in the United States--their culture, special characteristics, extensive climate and soil adaptations, their uses as forage and soil-conservation crops. Here, in a convenient volume, are the latest, scientifically tested procedures farmers may adopt to assure full utilization and conservation of their forage and pasture acres.

Part I considers the management of forage crops: grasses and legumes. Part II treats legumes as special crops. Part III is devoted to the grasses. Part IV consists of tables of data on seed adaptation and includes a comprehensive list of references.

GRAY'S MANUAL OF BOTANY, By Asa Gray. 8th ed. New York, American Book Co., 1950. 1632 p. 455.2 G79M

Subtitle: A handbook of the flowering plants and ferns of the central and northeastern United States and adjacent Canada, largely rewritten and expanded by Merritt Lyndon Fernald.

GUIDEBOOK OF THE SAN JUAN BASIN, NEW MEXICO AND COLORADO: FIRST FIELD CONFERENCE, NOVEMBER 3-4-5, 1950. New Mexico Geological Society. Socorro, 1950. 153 p.

"The guidebook consists of nine short papers on the geologic systems represented in the region, several papers of a regional nature which treat the sedimentary and structural history, and special papers concerning mining resources, geophysical exploration, drilling practices, marketing, status of land, and history of development and production." --From the Introduction.

SOIL SCIENCE SOCIETY OF AMERICA. PROCEEDINGS. Vol. 14, 1949. Madison, Wisc., The Soil Science Society of America, 1950. 420 p. 56.9 So3

Includes papers on the following subjects; soil physics, soil chemistry, soil microbiology, soil fertility, organic soils, soil genesis, morphology and cartography, forest soils, and soil technology.

THE THEORY AND PRACTICE OF REINFORCED CONCRETE, By C. W. Dunham. 2nd ed. New York McGraw-Hill, 1944. 558 p. 290 D922

The purpose of this text is to present in a simple and understandable manner the theories upon which the design of most ordinary types of reinforced-concrete construction is founded, and to illustrate the practical features which are so important in planning and building concrete structures.

In this second edition, the engineer will find new material on the design of beams; the bond between concrete and reinforcement; the design of rectangular and unsymmetrical footings and the design of columns.

There are many useful tables and diagrams in the Appendix.

TREE CROPS; A PERMANENT AGRICULTURE, By J. R. Smith. New York, Devin-Adair, 1950. 408 p., illus. 99 Sm6

The first edition of this book was published a good many years ago. It is a comprehensive survey of the potentialities of nut trees as producers of food and conservers of the soil. A few other trees and bushes which are not nut tree but do produce food and hold soil on hillsides, such as the carob and the blueberry, are discussed. The author criticizes the lukewarm attitude of government horticulturists and conservationists toward tree crops.

A WATER POLICY FOR THE AMERICAN PEOPLE. U. S. President's Water Resources Policy Commission. Washington, U. S. Govt. Print. Off., 1950. 445 p., illus.

The first of three reports on the need for greater water conservation, improved irrigation and increased water supply throughout the country. This general report discusses in detail projected adjustments in Federal and State policy necessary in order to benefit all regions.

SUBJECT PACKETS

SECRETARIAL AIDS and PUBLIC RELATIONS are the titles of two new subject packets. These are collections of bulletins, reprints and periodical articles selected because they are short, readable and interesting. We believe they will help you do a better job. Let us know if you wish to see either or both. The loan period is two weeks in Albuquerque, three weeks elsewhere.

GRASSROOTS PUBLIC RELATIONS FOR AGRICULTURE*

By
Ed Lipscomb

Mr. Lipscomb begins his little book with much desk pounding about labor and government trying to dominate the agricultural scene. After 38 pages he has his axe ground and has hacked his way to the grassroots, finally explaining his idea of a public relations program for community farm organizations.

He writes his message to "present and prospective officers of country and community farm organizations!" To the farmers who built America.

Bits of wisdom are evident throughout, even though they may have resulted from unintentional combinations of common words. He speaks often of public opinion, the magic soul of collective man. It changes slowly and is changed slowly because "genius and cleverness are not essential to bringing about such a change, but hard work, perserverance, and determination are." A big order for the average get-rich-quick seller of good will!

You will be doing yourself a good turn to read the book, since it will review for you the process of selling ideas to people. It may not increase your income but it will, if you will not be too critical, tell you that people all want the importance they get from being solicited for their support of a "good thing." Even you like it, as I do.

Mr. Lipscomb is sincere in his belief that agriculture should be represented by agricultural producers. They have, within their group, leaders who can represent them most effectively in getting public support. If the farm organizations want the support of the farmer they must make friends with him and show interest in his problems.

Mr. Lipscomb has done an excellent job of describing the media for putting over a public relations program. He also indicates that such programs to be successful must give farmers something they want. It means giving more than you ever expect in return.

Review by - R. Frank Hedges, District Conservationist, Soil
Conservation Service

*Lipscomb, Ed. GRASSROOTS PUBLIC RELATIONS FOR AGRICULTURE. Little Rock, Pioneer, 1950. 194 p. 238.2 L66

ATTENTION

The three publications listed below will be of particular interest to USDA employees in the Southwest.

LAWN PROBLEMS OF THE SOUTHWEST, By H. J. Dittmer. Univ. of N. M. Publications in Biology No. 4, 76 p. Albuquerque, Univ. of N. M. Press, 1950. 442.9 N46.

"In this paper we have undertaken the task of presenting those problems one encounters in planting a lawn under alkaline conditions and in soils which are more sterile than fertile. The answers to these problems are included and in many cases offer solutions which are not difficult to accomplish." -- From the Author's Introduction.

MANUAL OF GRASSES OF THE UNITED STATES, By A. S. Hitchcock and Agnes Chase. 2nd ed rev. USDA Misc. Pub. No. 200, 1051 p. 1951. 1 Ag84M

The long awaited revision of Hitchcock's Manual has been received.

The new edition, by Agnes Chase, includes descriptions of all grasses known to grow in the continental United States, excluding Alaska. There are 169 numbered genera and 1,398 numbered species. Nearly all are illustrated, and about half are accompanied by a map giving the distribution in the U. S.

SALT CEDAR INTERAGENCY TASK FORCE, NEW MEXICO. Report to Salt Cedar Interagency Council. Albuquerque, 1951. v.p. WFC

The high consumption of limited water supplies by salt cedars and other phreatophytes has become one of the most serious problems facing irrigators and all other water users in many parts of the southwestern U. S. This report was prepared to provide technical guidance for operations agencies which may undertake an eradication program in the next year or two. It contains information on chemical and mechanical control methods, revegetation of cleared areas, consumptive use of water by salt cedars and distinguishing characteristics of *Tamarix Gallica*. There is an annotated bibliography of the material used in the preparation of the report.

NEW BULLETINS

ENTOMOLOGY

BOWEN, C. V. A rapid vat-side test for assaying toxaphene in cattle dips. U. S. Bur. of Ent. and Plant Quar. ET-285, 9 p. Washington, D. C., 1950. 1.9 En83B

FAULKNER, F. S., DEONIER, C. C., and DAVIS, A. W. Gravity-flow equipment for dispersing insecticides from aircraft. U. S. Bur. of Ent. and Plant Quar. ET-284, 6 p. Washington, D. C., 1950. 1.9 En83Et

HANSEN, M. F., TODD, A. C., ABLETT, G. W., and CABELIN, M. Effects of a pure infection of the tapeworm *Moniezia expansa* on lambs. Ky. Agr. Exp. Sta. Bul. 556, 11 p. Lexington, 1950. 100 K415

POTTS, S. F. and GARMAN, F. Concentrated sprays for application by mist blowers for control of forest, shade and fruit tree pests. Conn. Agr. Exp. Sta. Circ. 177, 19 p. New Haven, 1950. 100 C76Stc

FORESTRY

BRIEGLER, P. A. Applied forest management in the Douglas-fir region. U. S. Pacific Northwest Forest and Range Exp. Sta. Research Note No. 71, 9 p. Portland, Oreg. 1950. 1.9 F7629Fr

HORTON, J. S. Trees and shrubs for erosion control in Southern California mountains. Calif. Dept. of Natural Resources, Div. of Forestry and U. S. Forest Serv., Calif. Forest and Range Exp. Sta. 1949. 72 p. 56.7 H78

FORESTRY--Continued.

- MATSON, E. E. and RAFFAELER, H. A. Fall Creek second-growth Douglas-fir thinning study. U. S. Pacific Northwest Forest and Range Exp. Sta. Research Note No. 70, 13 p. Portland, Oreg., 1950. 1.9 F7629Fr
- METHODS OF APPLYING WOOD PRESERVATIVES. U. S. Forest Products Lab. No. R154, 23 p Rev. 1950. 1.9 F761R
- RANDALL, C. E. and HEISLEY, M. F. Our forests: what they are and what they mean us. USDA Misc. Pub. No. 162, 38 p. Rev. 1950. 1 Ag84M
- SIMMONS, F. C. Northeastern loggers' handbook. USDA Agr. Handbk. No. 6, 160 p. 1951. 1 Ag84Ah

RANGE & PASTURE

- BARNES, C. K., LANG, R. L., and BEETLE, A. A. Dryland grass seeding in Wyoming. Wyoming Agr. Exp. Sta. Bul. 299, 22 p. Laramie, 1950. 100 W99b
- BEETLE, A. A. Range-condition classes on the Laramie Plains, Wyoming. Wyoming Agr. Exp. Sta. Circ. 37, 7 p. Laramie, 1950. 100 W99C
- CARDON, P. V. Grassland agriculture. Talk at the Grassland Field Day, Rutgers Univ. Dairy Research Farm, June 29, 1950. U. S. Agr. Res. Admin., 1950, 12 p 1.965 A2C17
- GORDON, E. D. and HURST, W. M. Artificial drying of forage crops. USDA Circ. No. 443, 28 p. Rev. 1950. 1 Ag84C
- GRASSES AND LEGUMES ON MICHIGAN FARMS. Mich. Agr. Exp. Sta. Circ. Bul. 217, 44 p. East Lansing, 1950. 100 M58Scb
- HULL, A. C., JR., DORAN, C. W., WASSER, C. H. and HERVEY, D. F. Reseeding sagebrush lands of western Colorado. Colo. Ext. Serv. Bul. 413-A, 23 p. Ft. Collins, 1950. 275.29 C71B
- HUMPHREY, R. K. Arizona range resources. II. Yavapai County. A Study in range condition. Ariz. Agr. Exp. Sta. Bul. 229, 55 p. Tucson, 1950. 100 Ar4B
- KARRAKER, F. E., BORTNER, C. E., and FERGUS, E. W. Nitrogen balance in lysimeters as affected by growing Kentucky bluegrass and certain legumes separately and together. Ky. Agr. Exp. Sta. Bul. 557, 16 p. Lexington, 1950. 100 K415

SOILS & FERTILIZERS

- DORAN, W. L. The control of some soil-borne diseases of plants by fungicides applied to the soil in fertilizer. Mass. Agr. Exp. Sta. Bul. No. 455, 28 p. Amherst, 1950. 100 M38Hb
- FERTILIZER POSSIBILITIES IN NORTH DAKOTA. N. D. Ext. Serv. Circ. A-141, 4 p. Fargo, 1950. 275.29 N812

SOILS & FERTILIZERS---Continued.

- FIREMAN, M., MOGEN, C. A., and BAKER, C. O. Characteristics of saline and alkali soils in the Emmett Valley Area, Idaho. Idaho Agr. Exp. Sta. Res. Bul. 17, 35 p. Moscow, 1950. 100 Id1A
- KERSTEN, M. S. Thermal properties of soils. Minn. Engineering Exp. Sta. Bul. No. 28, 227 p. Minneapolis, 1949. U.B. Soil
- OLSEN, S. R. and others. Utilization of phosphorus by various crops as affected by source of material and placement. Colo. Agr. Exp. Sta. Tech. Bul. 42, 43 p. Ft. Collins, 1950. 100 C71St
- ROBINSON, W. O., WHETSTONE, R. R., and EDGLINGTON, G. The occurrence of barium in soils and plants. USDA Tech. Bul. No. 1013, 36 p. 1950. 1 Ag84Te
- STALLINGS, J. H. Erosion of topsoil reduces productivity. U. S. Soil Conserv. Serv. SCS-TP-93, 31 p. 1950. 1.96 Ad6Tp
- SUGGESTIONS FOR FERTILIZER USE IN NORTH DAKOTA. N. D. Ext. Serv. Circ. A-142, 4 p. Fargo, 1950. 275.29 N312
- WARRING, F. A. Teamwork to save soil and increase production. USDA Misc. Pub. No. 486, 64 p. Reprinted, 1949. 1 Ag84M

WATER

- BLANEY, H. F. and CHIDDLE, W. D. Consumptive use and irrigation water requirements of crops in Colorado (provisional). U. S. Soil Conserv. Serv., 1949. 55 p. U.B. Water
- DONNAN, W. W. and BRADSHAW, G. B. Methods of determining ground-water levels and movements. (provisional) U. S. Soil Conserv. Serv. 1950. 14 p. U.B. Water
- HAZEN, A. G. Irrigation trials in western North Dakota. N. D. Agr. Exp. Sta. Bul. 358, 34 p. Fargo, 1950. 100 N313b
- HUBBELL, D. S. and GARDNER, J. D. Effects of diverting sediment-laden runoff from arroyos to range and crop lands. USDA Tech. Bul. No. 1012, 81 p. 1950. 1 Ag84Te
- MECKS, T. O. Reconnaissance of ground-water conditions in the Uncompahgre Valley, Colorado, Shavano and Uncompahgre Soil Conservation Districts. U. S. Soil Conserv. Serv. Southwest Region. Reg. Bul. 112, 27 p. Albuquerque, 1950. 1.9608 R26
- U. S. DEPT. OF AGRICULTURE. Colorado River Basin. Report to the President's Water Resources Policy Commission. Washington, D. C., 1950. 46 p. WFC
- U. S. SOIL CONSERVATION SERVICE. Effects of conservation treatments on groundwater. Washington, D. C., 1950. 46 p. U.B. Water
- WESTERN SNOW CONFERENCE. Proceedings 18th Annual Meeting. Boulder City, Nevada, 1950. 73 p. U.B. Climate

WEED CONTROL

- BERGGREN, G. H. and DUFT, J. O. Chemical weed control in farm crops and vegetables. Pa. Agr. Ext. Serv. Circ. 356, 17 p. State College, 1950. 275.29 F38C
- SLIFE, F. W. and others. Weed control in small grains. Ill. Ext. Serv. Circ. 658 12 p. Urbana, 1950. 275.29 IL6C
- TALLEY, P. J. Tentative recommendations for weed control in cotton. Miss. Agr. Exp. Sta. Bul. 471, 16 p. State College, 1950. 100 M69
- TINGEY, D. C. and TIMMONS, F. L. Weeds - Methods for their control and eradication. Utah Agr. Exp. Sta. Circ. 127, 47 p., illus. Logan, 1950. 100 Utlc

WOOL

- BURNS, R. H. and JOHNSTON, A. Relation of wool type of ewes and breed of rams to lamb and wool production. Wyom. Agr. Exp. Sta. Bul. 296, 23 p. Laramie, 1950. 100 W99b
- BURNS, R. H. and JOHNSTON, A. The Wyoming sheep coat. Wyom. Agr. Exp. Sta. Bul. 298, 22 p. Laramie, 1950. 100 W99b
- JOHNSTON, A. Core-sampling of Wyoming wools, 1946-48. Wyom. Agr. Exp. Sta. Bul. 295, 20 p. Laramie, 1950. 100 W99b

MISCELLANEOUS

- AGRICULTURAL CONSERVATION PROGRAM. Handbook for 1951, New Mexico. U. S. Prod. and Market. Admin. 32 p., illus. 1950.
- BIENNIAL REPORT, 1948-50. Utah Agr. Exp. Sta. Bul. 343, 62 p. Logan, 1950. 100 Utlb
- BLANEY, H. F. and CRIDDLE, W. D. Determining water requirements in irrigated areas from climatological and irrigation data. U. S. Soil Conserv. Serv. SCS-TP-96, 48 p. 1950. 1.96 Ad6Tp
- LINCOLN, F. C. Migration of birds. U. S. Fish and Wildlife Serv. Circ. 16. 102 p., illus. 1950.

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